

Effects of Dexamethasone and temperature on mRNA expression in an immortalised clone of human bone marrow stromal cells

DNIA	7 5				
mRNA	Present at	Effects of	Present at	Effects of	Primary
	33°C	Dex	· 390C	Dex	OB-like
					cells
IL-1α	YES	-	··NO		NO
IL-1β	YES	-	NO		NO
IL-3	NO		NO		NO -
IL-4	NO		NO		NO
IL-6	YES	NE	YES	+	YES
IL-8	YES	NE	NO	+	YES
GM-CSF	YES		NO	<u> </u>	
					NO 1
TNFα	YES	+	NO		NO
Collagen I	YES	NE	YES	_	Not Done

= Increase in expression= Decrease in expression= No effect

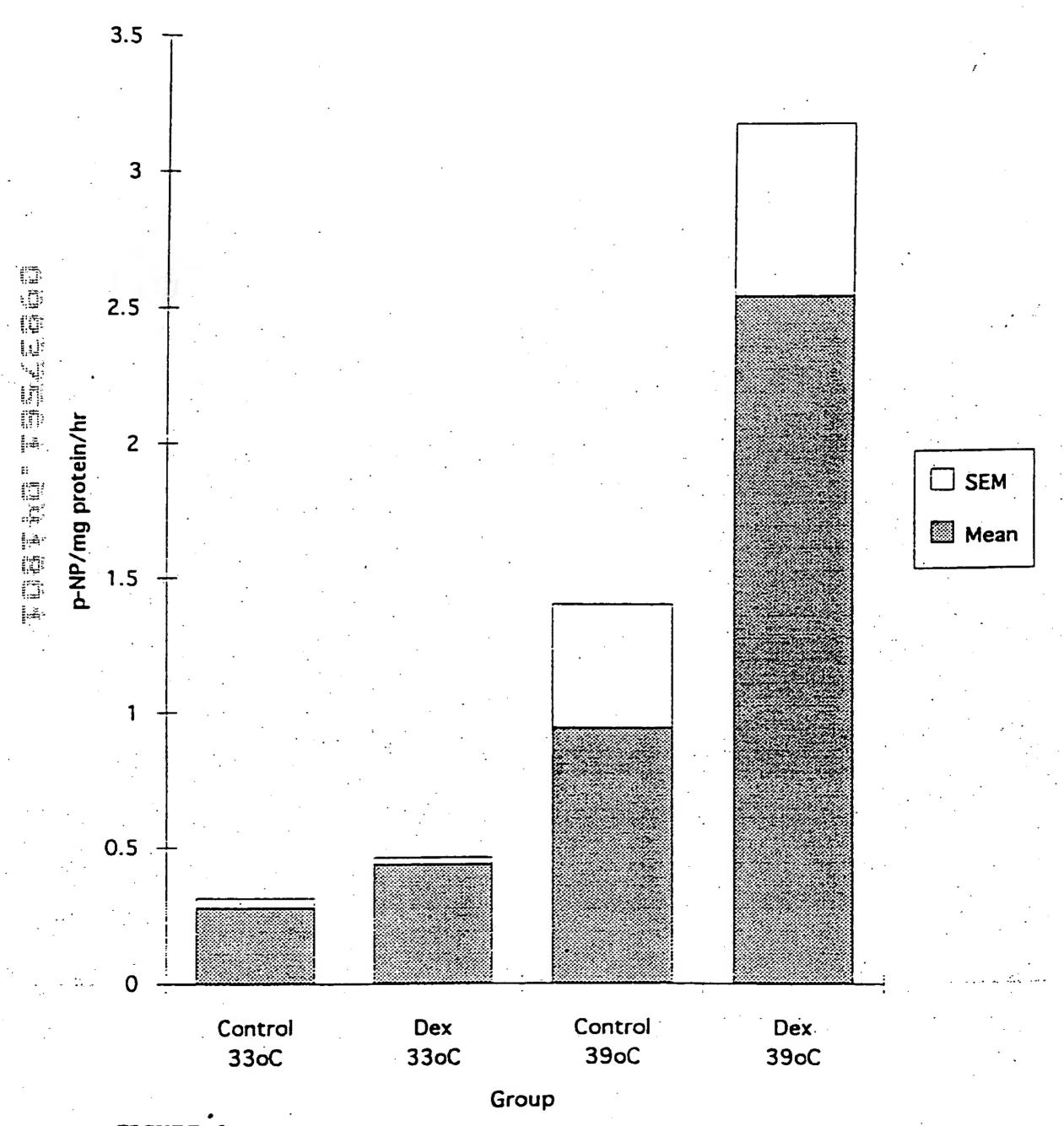
NE

5 x 10-7M Dexamethasone for 7 days

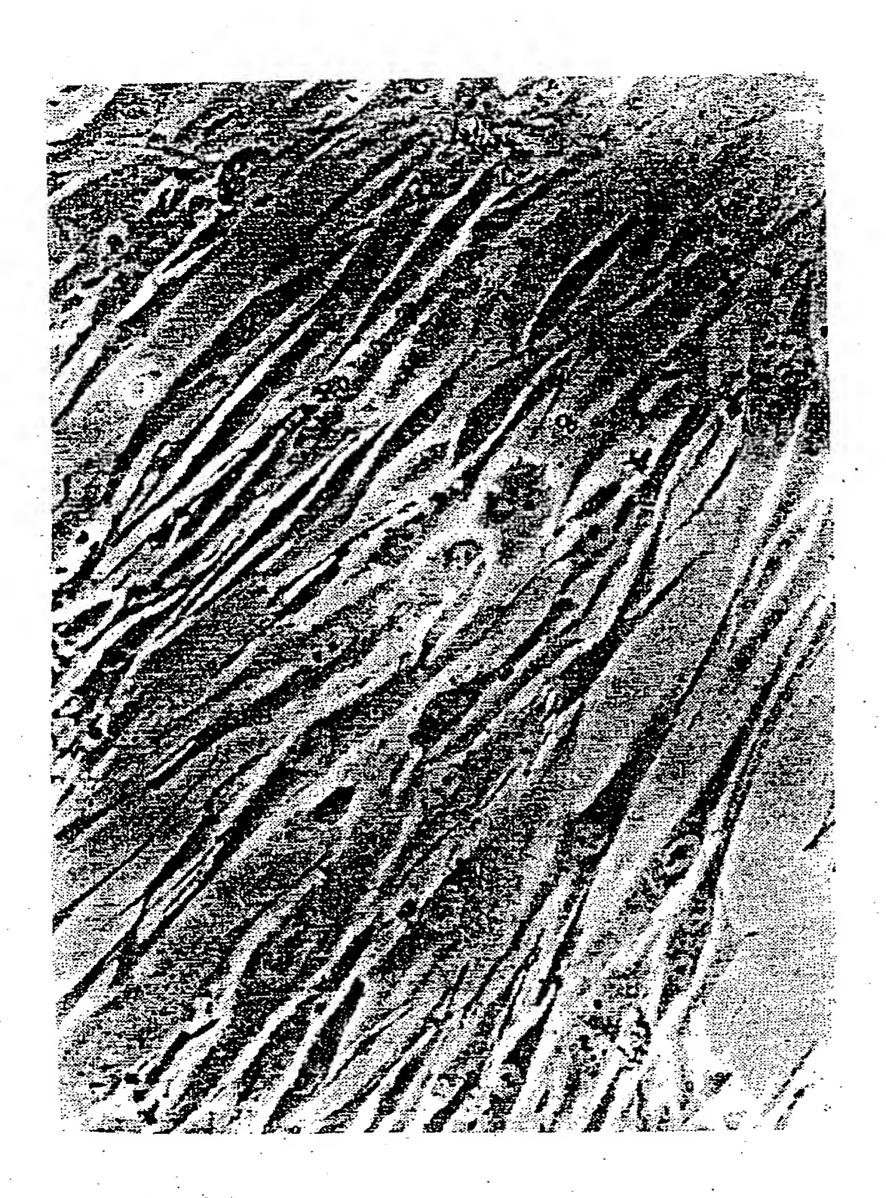
TABLE 1

SUBSTITUTE SHEET (RULE 26)

Effects of temperature and Dexamethasone (5 x 10 -7M) on alkaline phospha tase activity of HBMSC clone 7 cells



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Von Kossa staining control 33°C micropic view



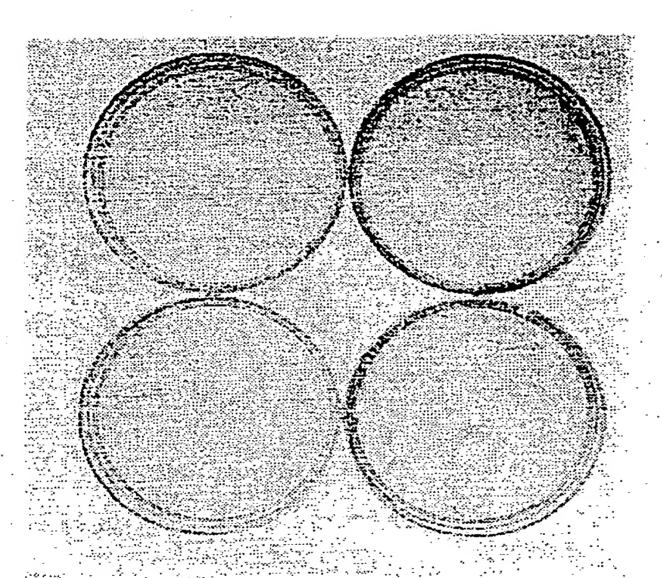
Von Kossa staining microscopic view dexamethasone 39°C 5x10-7m

9735

-Dex

+Dex

All at 39°C



Mixed Pop

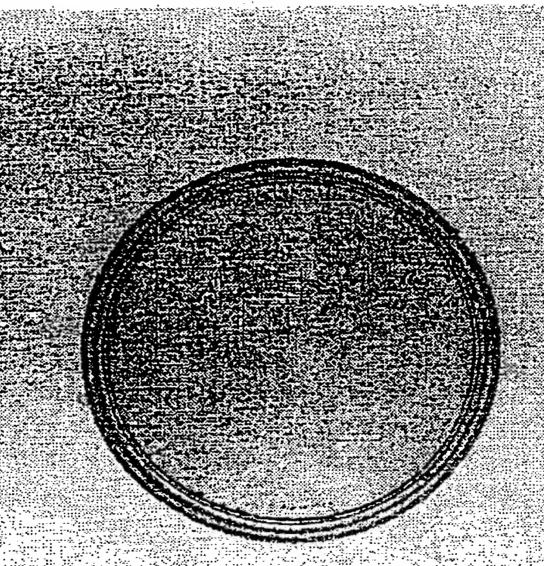
Clone 7

Macroscopic view of Von Kossa staining

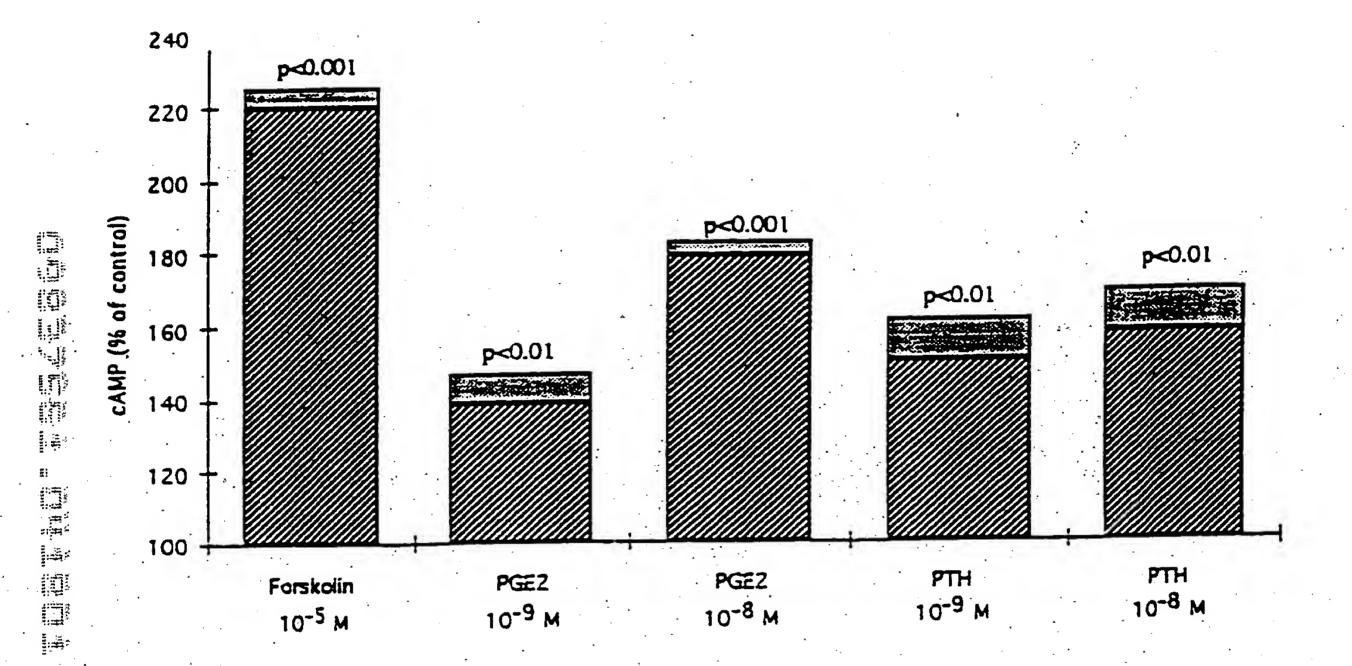
Clone 7

39°C

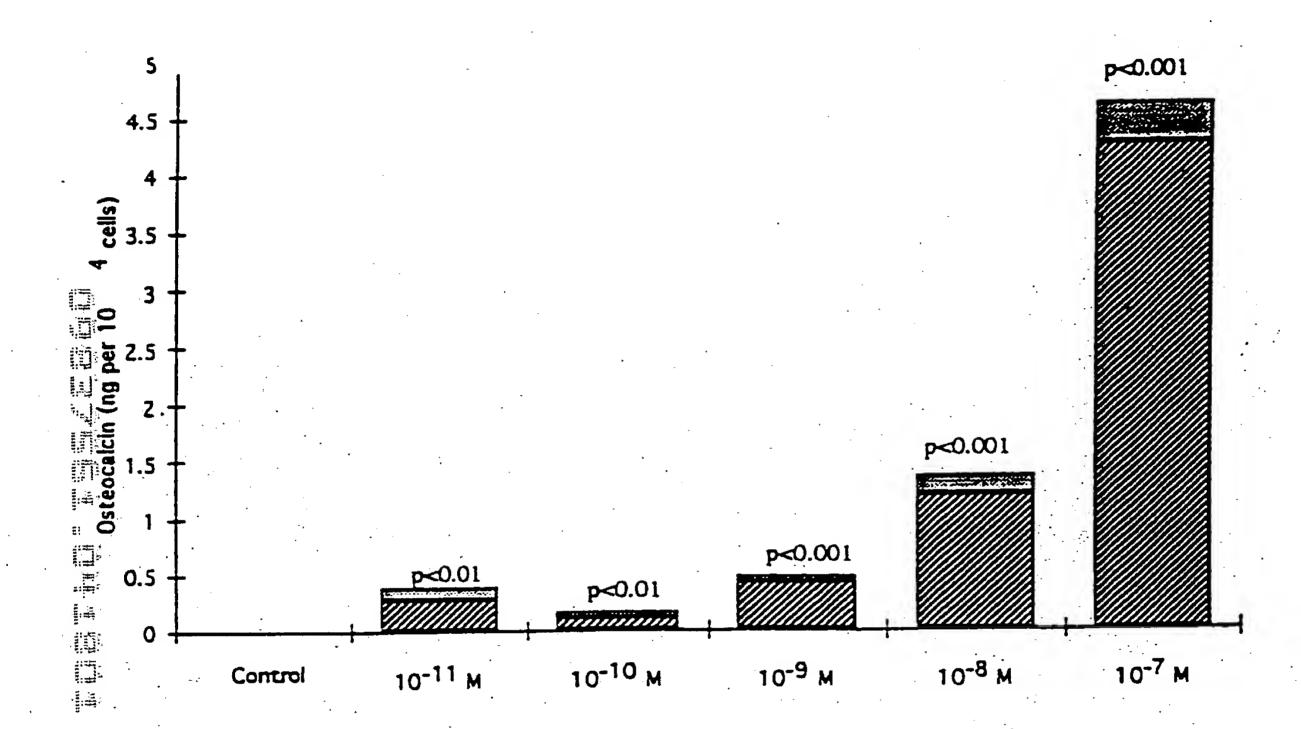
+Dex 5x10^{-7m}



Macroscopic view of Von Kossa staining for clone 7 and Dexamethasone $5 \times 10-7m$ at $39^{\circ}C$



Error bars = SEM. n=4
All groups compared to control for statistical analysis (student's t-test).



Error bars = SEM, n=4
All groups compared to control for statistical analysis (student's t-test).

FIGURE 7

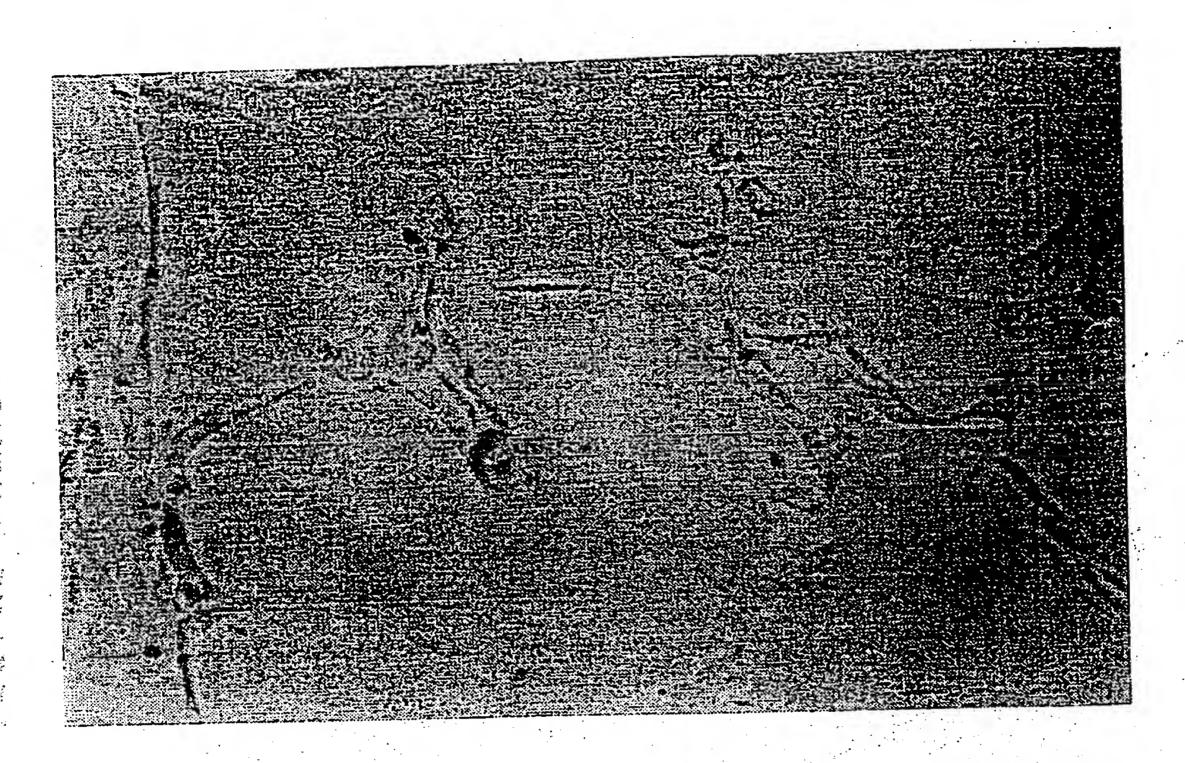


FIGURE 8



FIGURE 9

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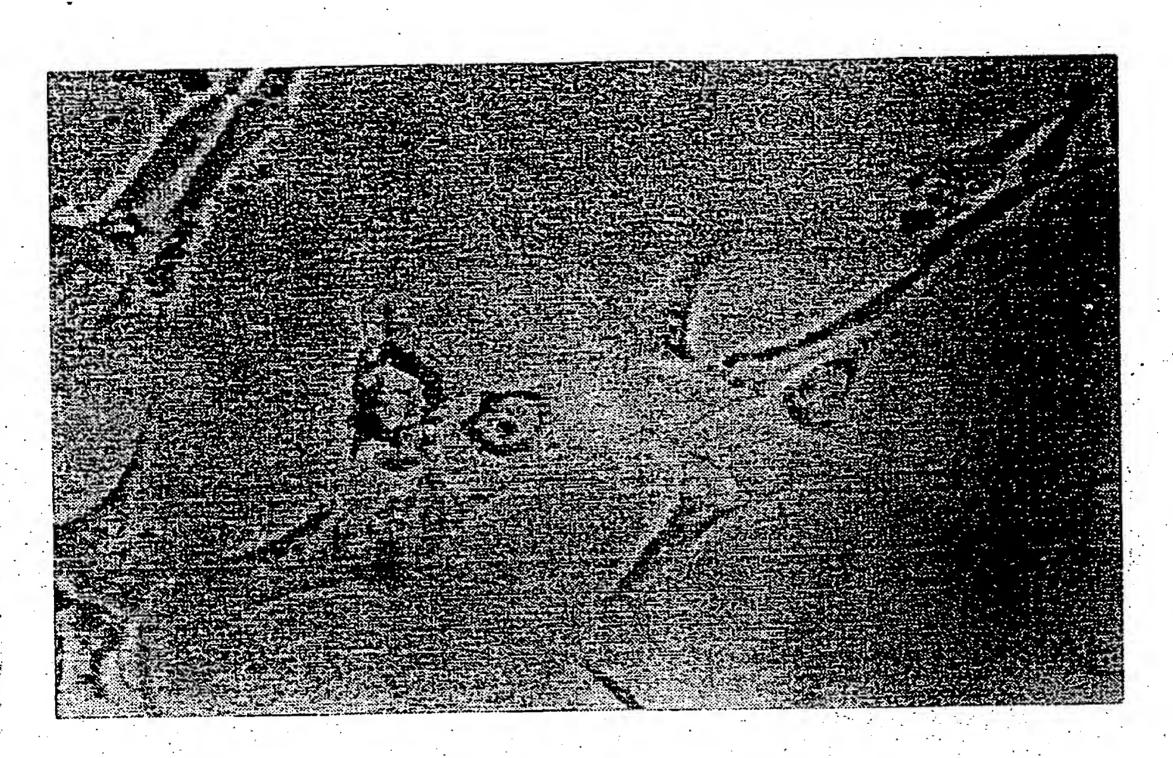


FIGURE 10

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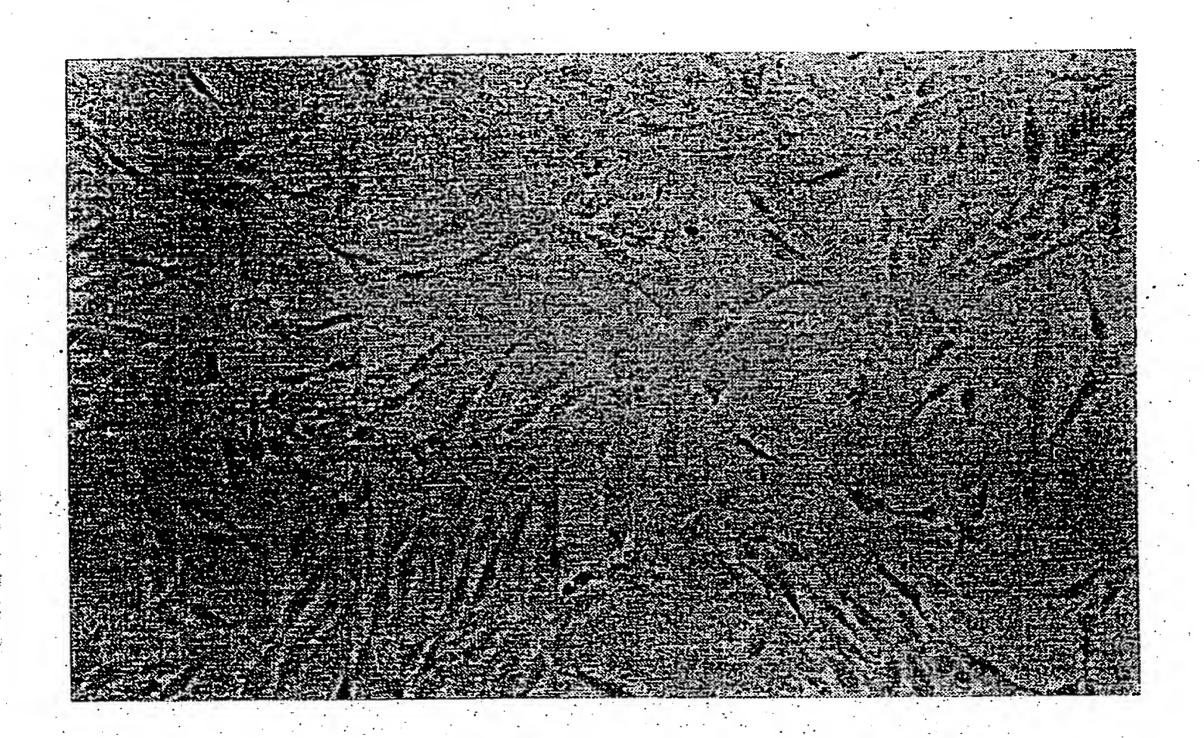


FIGURE 11

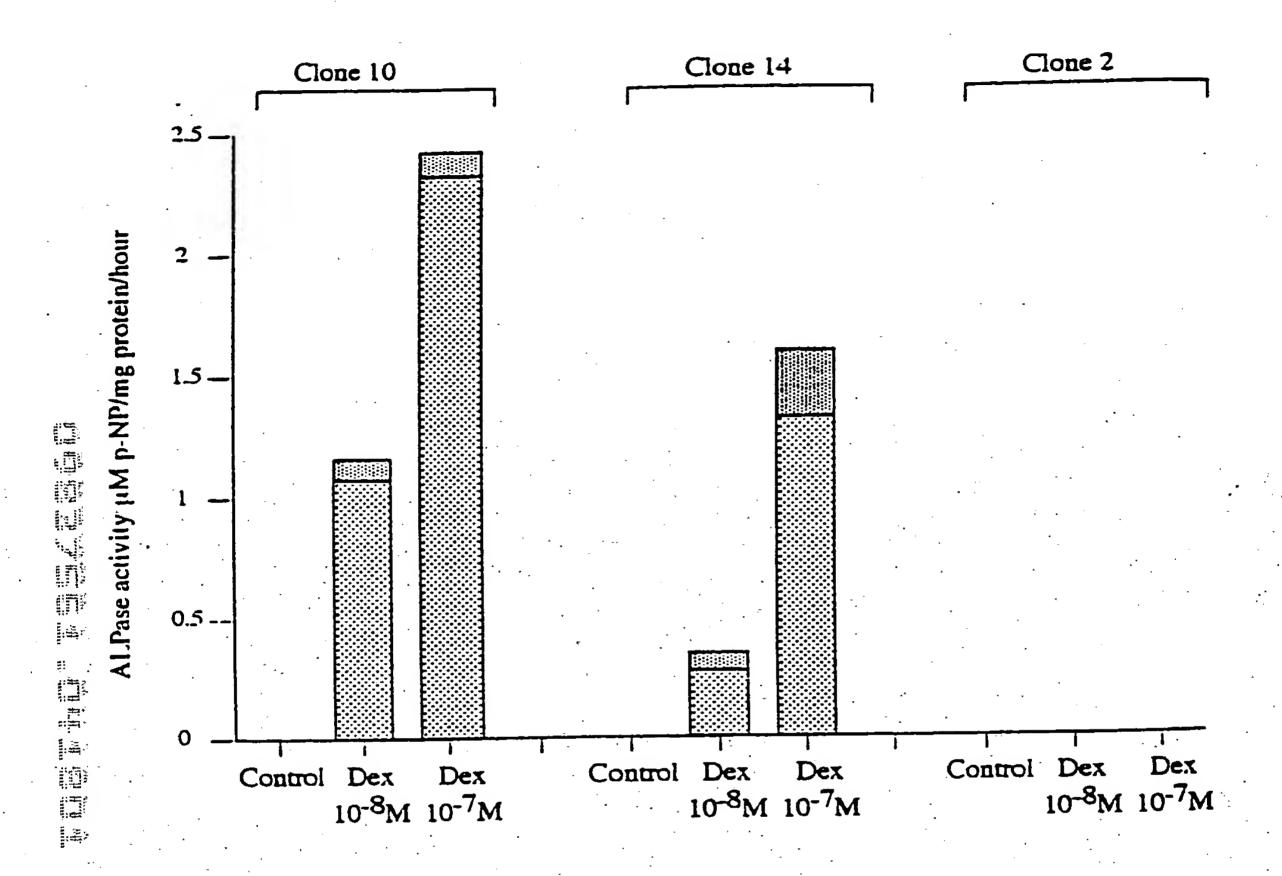
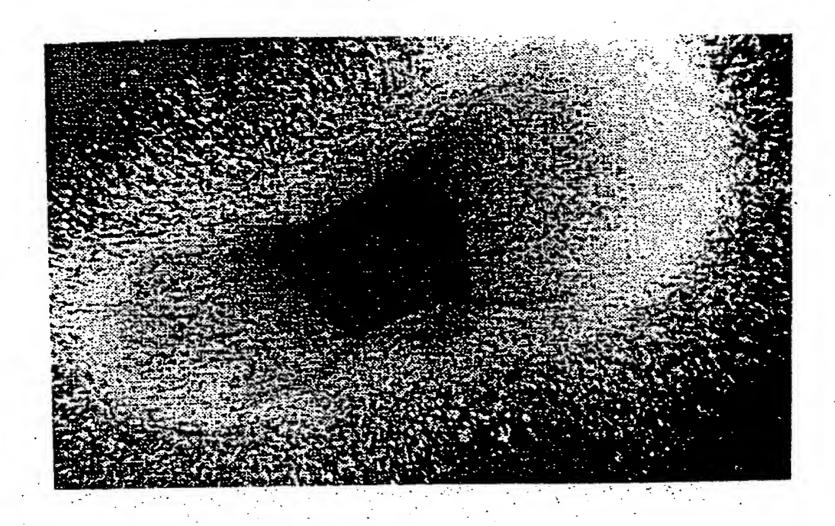
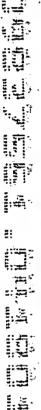
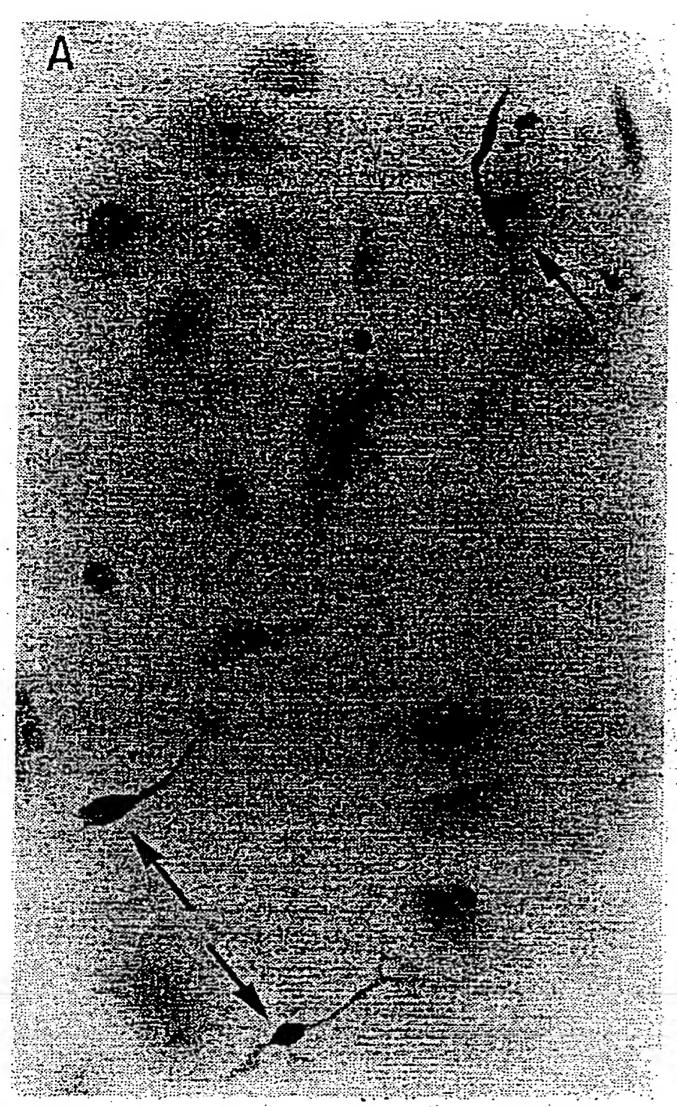


FIGURE 12



Femur derived from a human foetus 7-9 weeks of gestation and of approximately $600\,\mu\mathrm{m}$ in length.





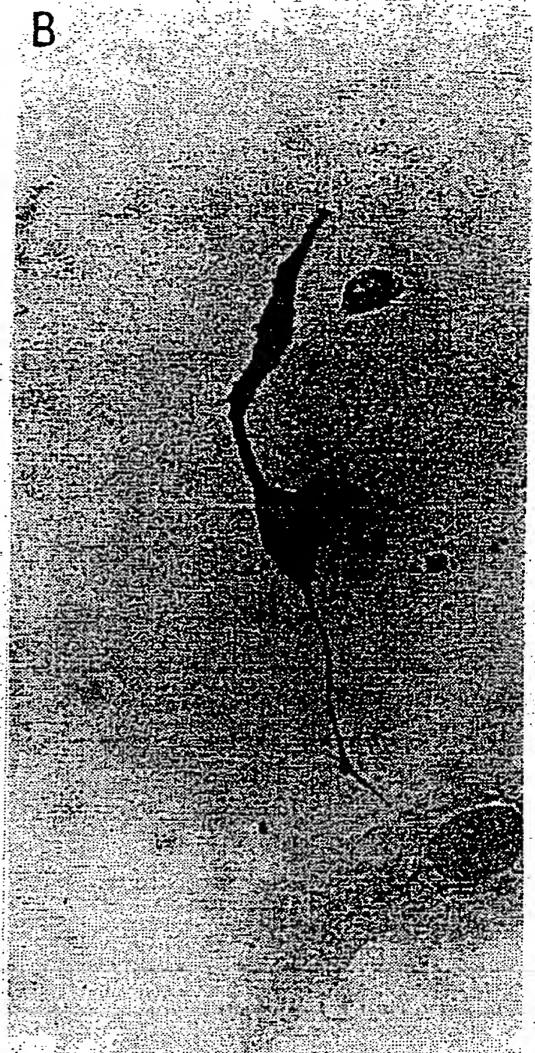


FIGURE 14

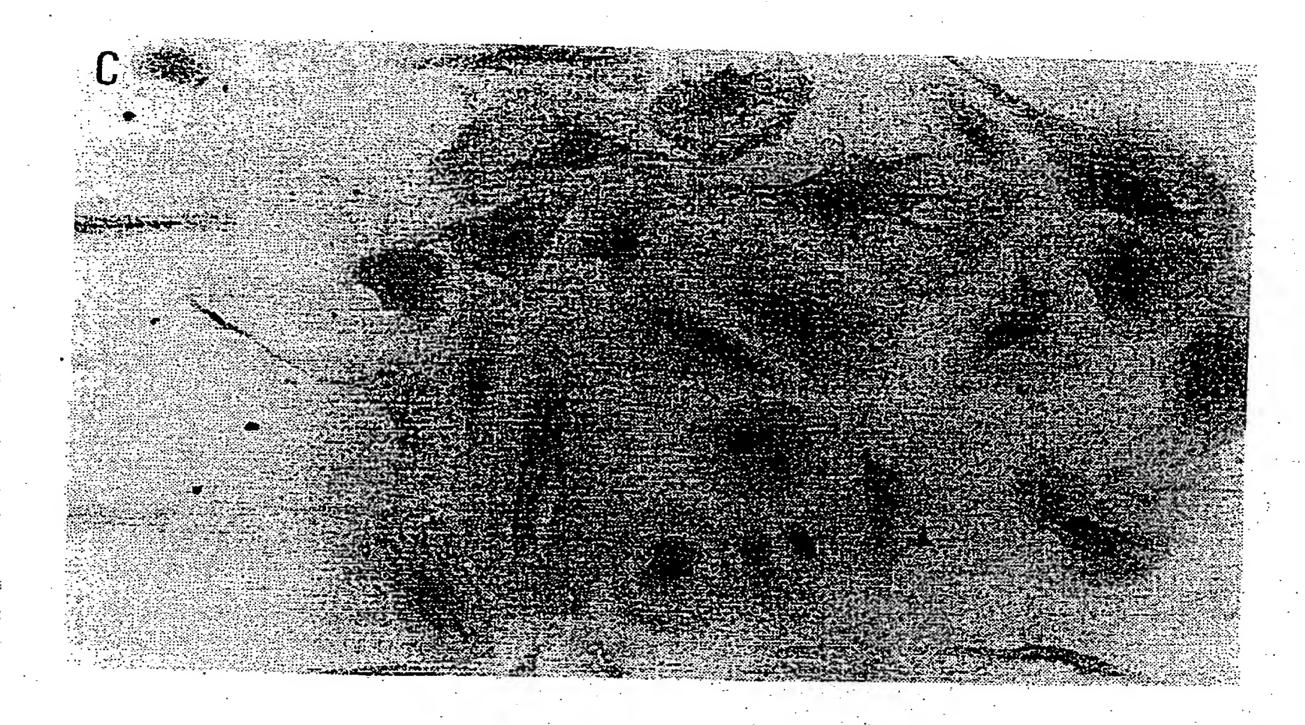


FIGURE 14